

REMARKS

The Office Action dated July 16, 2010 has been received and carefully noted.

By this amendment, claims 1-6 have been amended. Support for the amendment may be found in the specification as originally filed, such as page 12, line 23 to page 14, line 7, and Figure 3. Applicants submit that no new matter is added. Applicants respectfully request reconsideration and withdrawal of the rejections.

Claim Rejections – 35 U.S.C. §103

Claims 1 and 2 are rejected under 35 U.S.C. §103(a) as being unpatentable over Abe (JP 08282998 A, hereinafter “Abe”) in view of Kazerooni (U.S. Patent No. 5,915,673, hereinafter “Kazerooni”). Applicants note that claims 1 and 2 have been amended. To the extent that the outstanding rejections apply to the amended claims, Applicants respectfully traverse the rejection.

Claim 1, as amended, recites a component transportation and installation device comprising, among other features, a grip mechanism which grips the installed component, the grip mechanism comprising a dead man switch, ***an actuator comprising a first motor configured to move a slide table in a crosswise direction, a second motor configured to alter an elevation of a lifting table, a third motor configured to rotate a horizontal arm around a vertical shaft, and a fourth motor configured to rotate a vertical arm around an axis***, first actuator control means for controlling the actuator according to a predetermined route; and second actuator control means for performing assist control of the actuator, wherein the dead man switch is configured to enable the first actuator control means when the dead man

switch is not actuated and to enable the second actuator control means when the dead man switch is actuated. Applicants respectfully submit that Abe and Kazerooni, alone or in combination, do not teach all of the features recited by claim 1.

The Office Action cites Abe for teaching most of the features recited by claim 1. The Office Action admits, however, that Abe does not teach a deadman switch configured in the manner recited by claim 1. To cure the admitted deficiency, the Office Action cites Kazerooni for teaching a deadman switch configured in the manner recited by claim 1. Applicants respectfully submit that Abe does not teach the actuator features recited by amended claim 1. In particular, the device of Abe operates as a balancer by operating a clutch. While the clutch is engaged the moveable member is carried to a supplying position (A) by a drive unit. Conveyance to depalletizing and to a position of readiness (B) is automatically performed. See paragraph [0035] of Abe. When the clutch is disengaged the moveable member becomes free and the cylinder supports the load. See paragraph [0036] of Abe. Claim 1, however, recites that the actuator comprises four different motors. The motors of the actuator recited by claim 1 switches the mode between an automatic transportation and assist transportation which can reduce a worker's burden. In other words, the device of Abe assists the worker via the clutch and the cylinder, while the invention recited by claim 1 assists the worker by switching modes via the actuator comprising the four motors. In view of the above, Applicants respectfully submit that Abe not disclose an actuator comprising the four motors recited by claim 1.

Kazerooni is cited merely for teaching a dead man switch. Therefore, Applicants respectfully submit that Kazerooni does not cure the above-described deficiency of Abe.

In view of the above, Applicants respectfully submit that claim 1 is not rendered obvious by Abe and Kazerooni.

Claim 2, as amended, recites method steps performed by the motors discussed above with respect to claim 1. Applicants respectfully submit that claim 2 is not rendered obvious by Abe and Kazerooni. For the reasons provided above, Abe does not teach all of the steps of:

- moving a slide table in a crosswise direction;
- altering the elevation of a lifting table;
- rotating a horizontal arm around a vertical shaft; and
- rotating a vertical arm around an axis.

Therefore, Abe and Kazerooni do not teach or suggest all of the features recited by claim 2.

Claims 3 and 4 are rejected under 35 U.S.C. §103(a) as being unpatentable over Abe in view of Kiyuukazi (JP 2000210824 A, hereinafter “Kiyuukazi”) in view of Kazerooni.

Claim 3 and 4, as amended, recite similar features discussed above with respect to claims 1 and 2. Abe and Kazerooni are discussed above. Applicants respectfully submit that claims 3 and 4 are not rendered obvious by Abe, Kiyuukazi, and Kazerooni at least for the same reasons provided above.

Claims 5 and 6 are rejected under 35 U.S.C. §103(a) as being unpatentable over Abe in view of Ishihara (JP 09210116 A, hereinafter “Ishihara”) in view of Kazerooni.

Claims 5 and 6, as amended, recite similar features discussed above with respect to claims 1 and 2. Abe and Kazerooni are discussed above. Applicants

respectfully submit that claims 5 and 6 are not rendered obvious by Abe, Ishihara, and Kazerooni for the same reasons provided above.

For at least the above reasons, Applicants respectfully request reconsideration and withdrawal of the rejection of Claims 1-6 under 35 U.S.C. §103(a) over Abe, Kazerooni, Kiyuukazi, and Ishihara.

Conclusion

Applicants respectfully submit that this application is in condition for allowance and such action is earnestly solicited. If the Examiner believes that anything further is desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below to schedule a personal or telephone interview to discuss any remaining issues.

In the event that this paper is not being timely filed, the Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension, together with any additional fees that may be due with respect to this paper, may be charged to Counsel's Deposit Account Number 01-2300, referencing Docket Number 028359-00003.

Respectfully submitted,



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